May 6, 2016

MEMORANDUM FOR: Distribution Email

FROM: Christine Caruso Magee
                                      Configuration Manager, NCEP Central Operations

SUBJECT: Scheduled Operational Changes and Upgrades for
                                      CPC, OPC, and WPC

<u>Climate Prediction Center</u>

<u>The following accelerated items were implemented this past week</u>:

None

<u>The following will be implemented the week of May 9, 2016</u>:

RFC #644 – VWT v2.0.1 – For the Verification Web Tool, fix a bug that's
preventing Alaska stations from having verification scores show up on the spatial
page. To be implemented on May 9 at 1400Z.

RFC #647 - Add additional logging information to the Extended Range Forecast
Consolidation Process. Logging information will now include input configuration
settings as part of an automatic diagnostics e-mail sent out to the process owner
for easier error tracking. In addition, an erroneous input configuration setting
corresponding to a climatological quality control threshold is being corrected to
prevent valid data from potentially being masked out in certain 8 to 14 day
precipitation output maps. To be implemented on May 10 at 2000Z.

<u>The following RFCs are in progress</u>:

None

<u>The following NCO RFCs to be implemented the week of May 9, 2016 may affect CPC:</u>

RFC #1919 – GFS v13.0.2 – Major upgrade of the GFS/GDAS. For details, see the TIN at: http://www.nws.noaa.gov/os/notification/tin16-11gfs_gdasaaa.htm . The following downstream production jobs will be updated in response to the GFS/GDAS changes:

amsu_estimation.v1.1.2
cdas2.v1.0.3
cfs.v2.1.19
cpci.v1.0.4
dgex.v3.1.4
ens_tracker.v1.1.7
estofs_pac.v1.0.4
estofs.v1.1.7
etss.v2.1.1
gefs_legacy.v10.3.5
gefs.v11.0.5
genesis_tracker.v3.4.3
gfdl.v13.0.4
gfs_mos.v4.2.4
global_fog.v5.1.3
hiresw.v6.1.8
hrqpf.v1.0.14
hwrf.v9.0.20
hysplit.v7.3.3
jobs/JICLOUD
jobs/JINAMSST
jobs/JUVI
models_realtime.v3.0.3
nam.v3.1.21
ngac.v1.0.2
nhc_guidance.v1.0.12
nosofs_shared.v2.3.2b
nosofs_shared.v2.3.6b
nosofs_shared.v2.3.8
nosofs.v3.0.2
nwps.v1.0.4
obsproc_nam.v2.0.4
obsproc_rap.v2.0.4
obsproc_rtma.v2.0.7
obsproc_satingest.v3.0.3
obsproc_urma.v2.0.7
ofs_atl.v1.0.0
poes_phyret_sst.v3.0.5

rap.v2.0.18
rtma.v2.4.3
rtofs_glo.v1.0.7

This package will be considered operational as of the 1200Z cycle on May 11.

RFC #1929 – HPSS v502p4 – On WCOSS (Crays), the production HPSS module file currently points to the /usr/local/hpss directory. This module file will be re-oriented to reference the /usrx/local/prod/hpss directory. To be implemented on May 12 at 1800Z.

The following NCO RFCs to be implemented the week of May 16, 2016 may affect CPC:

RFC #1924 – decod_dcears v3.3.0 - The decoder for EARS data is being upgraded to also process CrIS , ATMS, and IASI data. The additional output will be stored in new bufr tanks b021/xx037 (CrIS), b021/xx038 (ATMS), and b021/xx039 (IASI) in the NCEP observational database. To be implemented on May 17 at 1200Z.

The following NCO RFCs are in progress and may affect CPC:

RFC #1864 – WCOSS – Work is being done on the Crays to add 2 new service blades containing 2 nodes each for DVS/GPFS services. This implementation was completed on Surge, and the same work will be done on Luna after the next production switch on May 11. Outages at dates TBD will occur on Luna in conjunction with this work. This work should be completed by May 31.

Ocean Prediction Center

The following accelerated items were implemented this past week:

RFC #638 - Turned back on pulling of ASCAT-A data from NESDIS for populating on OPC's ftp site due to a customer complaint. NAWIPS will not be switched back to the non-operational feed. Implemented on May 3 at 1530Z.

The following will be implemented the week of May 9, 2016:

RFC #639 - NOAA NMFS has requested that support ends for their Antarctic Ecosystem Research Group 2015-2016 field season. Deactivate the IDP cron job. To be implemented on May 9 at 1130Z.

RFC #640 - Change the ice edge on the Arctic Pacific SST web images from the ice concentration in the AMSR/AVHRR OI SST files to the NIC Ice Edge used on all other OPC products.   See:

http://www.opc.ncep.noaa.gov/AK_tab.shtml
http://www.opc.ncep.noaa.gov/shtml/arctic/OISSTICE_LATEST.gif

To be implemented on May 9 at 1200Z.

RFC #641 - Remove graphical verification pages that were replaced with a combined page (http://www.opc.ncep.noaa.gov/Loops/GraphicalVerif.php) in Feb 2015. To be implemented on May 9 at 1300Z.

RFC #642 - Update the IDP/Compute Farm GOES SST processing to use POES GOES as a data source ($DATA/poesgoes) instead of RTG. To be implemented on May 9 at 1400Z.

RFC #643 - Migrate the NetCDF to GRIB2 processing from WCOSS to the Compute Farm (CF) for NCOM 'useast' and 'amseas' files.   To be implemented on May 9 at 1400Z.

RFC #645 - Update OPC website's probabilistic wind images to 6 hourly for the GEFS. Change the lower bound of the PMSL contour range to 910 mb from 980 mb. Add NAEFS images over Alaska. Merge the 'windprob.php' (NAEFS), 'windprob_gefs.php' (GEFS), and 'gwes.php' (GWES) into one webpage ('prob_guidance.php'). Replace old pages with a message to update links. To be implemented on May 9 at 1430Z.

RFC #646 - Changes are being made to the web log processing scripts, 'webalizer.pl' and 'ftp_webalizer.pl', to allow them to run robustly on log files from the WOC and from servers at the NCWCP. To be implemented on May 10 at 1200Z.

RFC #648 – Remove all GFS and GEFS para data sources, as they are becoming operational. To be implemented on May 11 at 1200Z.

The following RFCs are in progress:

None

The following RFC has been delayed:

RFC #630 – opc_woc_mirrors_monitor.pl v2016.04.25 - Disable the crontab that monitors the WOC mirror web farms. OPC will be hosting its website directly from NCWCP infrastructure beginning April 25, 2016. Was to be implemented on April 25 at 1130Z; new implementation date is TBD, since additional changes were required. Once those changes have been implemented (week of May 9), this RFC will be rescheduled.

The following NCO RFCs to be implemented the week of May 9, 2016 may affect OPC:

RFC #1919 – GFS v13.0.2 – Major upgrade of the GFS/GDAS. For details, see the TIN at: http://www.nws.noaa.gov/os/notification/tin16-11gfs_gdasaaa.htm . The following downstream production jobs will be updated in response to the GFS/GDAS changes:

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etss.v2.1.1
gefs_legacy.v10.3.5
gefs.v11.0.5
genesis_tracker.v3.4.3
gfdl.v13.0.4
gfs_mos.v4.2.4
global_fog.v5.1.3
hiresw.v6.1.8
hrqpf.v1.0.14
hwrf.v9.0.20
hysplit.v7.3.3
jobs/JICLOUD

jobs/JINAMSST
jobs/JUVI
models_realtime.v3.0.3
nam.v3.1.21
ngac.v1.0.2
nhc_guidance.v1.0.12
nosofs_shared.v2.3.2b
nosofs_shared.v2.3.6b
nosofs_shared.v2.3.8
nosofs.v3.0.2
nwps.v1.0.4
obsproc_nam.v2.0.4
obsproc_rap.v2.0.4
obsproc_rtma.v2.0.7
obsproc_satingest.v3.0.3
obsproc_urma.v2.0.7
ofs_atl.v1.0.0
poes_phyret_sst.v3.0.5
rap.v2.0.18
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rtofs_glo.v1.0.7

This package will be considered operational as of the 1200Z cycle on May 11.

The following NCO RFCs to be implemented the week of May 16, 2016 may affect OPC:

RFC #1924 – decod_dcears v3.3.0 - The decoder for EARS data is being upgraded to also process CrIS , ATMS, and IASI data. The additional output will be stored in new bufr tanks b021/xx037 (CrIS), b021/xx038 (ATMS), and b021/xx039 (IASI) in the NCEP observational database. To be implemented on May 17 at 1200Z.

The following NCO RFCs are in progress and may affect OPC:

RFC #1864 – WCOSS – Work is being done on the Crays to add 2 new service blades containing 2 nodes each for DVS/GPFS services. This implementation was completed on Surge, and the same work will be done on Luna after the next production switch on May 11. Outages at dates TBD will occur on Luna in conjunction with this work. This work should be completed by May 31.

The following NCO RFCs, which may affect OPC, were approved with an implementation date TBD:

RFC #1357 – RTOFS global v1.1.0 – Major upgrade of the Global RTOFS model. See the TIN at: http://www.nws.noaa.gov/os/notification/tin15-36global-rtofsaaa.htm for details. This was advertised as having an October 6 implementation date but this implementation is being postponed due to a delay in the Navy's HYCOM model upgrade. Once the HYCOM upgrade is implemented, the Global RTOFS will be scheduled for implementation. The Navy hopes to upgrade HYCOM in FY16Q3. Notification will be given in advance so users may prepare for any changes which may affect them. This upgrade of the Global RTOFS was approved by the NCEP Director.

Weather Prediction Center

The following accelerated items were implemented this past week:

None

The following will be implemented the week of May 9, 2016:

RFC #649 - EMC is making a beta version of the GEFS which contains bias corrected QPF and PQPF. EMC is also making this data available downscaled to 5km. WPC will pipe the grib2 data (QPF and PQPF only) to the Compute Farm, where it will be de-gribbed and made available in NMAP2 for the FFaiR and WPC forecasters for testing. To be implemented beginning May 12 at 1600Z and should be completed by May 26.

The following RFCs are in progress:

RFC #637 - Add new scripts to the Compute Farm which will read a grib2 data set created by the Denver SOO, containing Quasi-Geostrophic (QG) omega and other QG diagnostics for the NAM, GFS and EC, and then convert this data to GEMPAK grid files for display in NMAP for WPC forecasters. NCO/IDSB/Dataflow is bringing this data in from NWS Central Region and it's being stored on IDP. The WPC scripts will read the data from IDP. Implementation began May 3 at 1600Z and should be completed by May 17.

<u>The following NCO RFCs to be implemented the week of May 9, 2016 may affect WPC:</u>

RFC #1919 – GFS v13.0.2 – Major upgrade of the GFS/GDAS. For details, see the TIN at: http://www.nws.noaa.gov/os/notification/tin16-11gfs_gdasaaa.htm . The following downstream production jobs will be updated in response to the GFS/GDAS changes:

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gefs.v11.0.5
genesis_tracker.v3.4.3
gfdl.v13.0.4
gfs_mos.v4.2.4
global_fog.v5.1.3
hiresw.v6.1.8
hrqpf.v1.0.14
hwrf.v9.0.20
hysplit.v7.3.3
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jobs/JUVI
models_realtime.v3.0.3
nam.v3.1.21
ngac.v1.0.2
nhc_guidance.v1.0.12
nosofs_shared.v2.3.2b
nosofs_shared.v2.3.6b
nosofs_shared.v2.3.8
nosofs.v3.0.2
nwps.v1.0.4
obsproc_nam.v2.0.4
obsproc_rap.v2.0.4
obsproc_rtma.v2.0.7
obsproc_satingest.v3.0.3
obsproc_urma.v2.0.7
ofs_atl.v1.0.0

poes_phyret_sst.v3.0.5
rap.v2.0.18
rtma.v2.4.3
rtofs_glo.v1.0.7

This package will be considered operational as of the 1200Z cycle on May 11.

The following NCO RFCs are in progress and may affect WPC:

None

Please note that security-related RFCs are never listed in the RFC memo.

---- OPERATIONAL ANNOUNCEMENTS ----

1. The CPC/OPC/WPC Configuration Management documents are available at
    https://sites.google.com/a/noaa.gov/nws-ncep-nco-cm/.

    Please review these documents if you have questions prior to
    submitting changes for CPC/OPC/WPC configurable items.

2.   Users who wish to view their network utilization via the Scrutinizer
     appliance may request access from NCO/IWSB. Please send an
     account request to the NCWCP Helpdesk at
     NCWCP.helpdesk@noaa.gov.